

**Trade name:** VERSILUS**Product no.:** KI 008 C0298 UK**Current version :** 3.0.4, issued: 28.06.2023**Replaced version:** 3.0.3, issued: 22.06.2023**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****VERSILUS****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Plant protection product

Fungicide

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

Certis Belchim B.V. (EU)

Stadsplateau 16

3521 AZ Utrecht - Nederland

Telephone no. 0031 (0)30 200 1200

Fax no. 0031 (0)30 310 0241

e-mail [info@certisbelchim.com](mailto:info@certisbelchim.com)**Advice on Safety Data Sheet**[www.certisbelchim.com](http://www.certisbelchim.com)**Identification of the supplier****Address**

Certis Belchim B.V. - United Kingdom

Suite 5, 3 Riverside, Granta Park - Great Abington

Cambridgeshire CB21 6AD

United Kingdom

Telephone no. 0044 (0) 1223 652500

Fax no. 0044 (0)1223 891210

e-mail [info.uk@certisbelchim.com](mailto:info.uk@certisbelchim.com) - [www.certisbelchim.co.uk](http://www.certisbelchim.co.uk)**1.4 Emergency telephone number**

Carechem 24 EU: +44 1235 239670

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Carc. 2; H351

STOT RE 1; H372

**Classification information**

Classification and labelling are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

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GHS08

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**Quartz (SiO<sub>2</sub>)

Benthiavalicarb – isopropyl

Sodium Ligninsulfonate

**Hazard statement(s)**

H351

Suspected of causing cancer.

H372

Causes damage to organs through prolonged or repeated exposure.

**Hazard statements (EU)**

EUH401

To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statement(s)**

P101

If medical advice is needed, have product container or label at hand.

P103

Read label before use.

P201

Obtain special instructions before use.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313

IF exposed or concerned: Get medical advice/attention.

P405

Store locked up.

P501

Dispose of contents/ container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

**2.3 Other hazards**

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Chemical characterization**

Benthiavalicarb 15% (WG)

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>Quartz (SiO<sub>2</sub>)</b>		
	14808-60-7 238-878-4 -	STOT RE 1; H372i	>= 25.00 - < 50.00 wt%
2	<b>Kieselguhr, calcined</b>		
	91053-39-3 293-303-4 -	STOT RE 2; H373i	>= 25.00 - < 50.00 wt%
3	<b>Benthiavalicarb – isopropyl</b>		

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	177406-68-7 - -	Carc. 2; H351 Skin Sens. 1; H317	>= 10.00 - < 25.00	wt%
4	<b>Sodium Ligninsulfonate</b>			
	8061-51-6 - -	Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 5.00 - < 10.00	wt%
5	<b>sodium-dodecyl-sulfate</b>			
	151-21-3 205-788-1 - -	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Irrit. 2; H315 Aquatic Chronic 3; H412	< 2.50	wt%
6	<b>silicon dioxide, chemically prepared</b>			
	7631-86-9 231-545-4 - -	-	< 2.50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Route, target organ, concrete effect
1	H372i inhalational; -; -
2	H373 inhalational; respiratory tract; -

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

#### After skin contact

Wash off immediately with soap and water.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

#### After ingestion

Call a doctor immediately and show label or packaging. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide; Extinguishing powder; Water spray jet; Foam

#### Unsuitable extinguishing media

High power water jet

### 5.2 Special hazards arising from the substance or mixture

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In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Nitrogen oxides (NO<sub>x</sub>); Sulphur oxides (SxO<sub>y</sub>)

**5.3 Advice for firefighters**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Run-off water from fire fighting must not be discharged into drains or enter surface water. Wear protective clothing.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge uncontrolled into the subsoil/soil.

**6.3 Methods and material for containment and cleaning up**

Collect mechanically. When collected, handle material as described under the section heading "Disposal considerations".

**6.4 Reference to other sections**

No data available.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

No special measures necessary if stored and handled as prescribed. Do not inhale dust. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area. Do not inhale dust/fumes/aerosols.

**Advice on protection against fire and explosion**

No special measures necessary.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

**Recommended storage temperature**

Value 5 - 25 °C

**Requirements for storage rooms and vessels**

Store product in closed containers.

**Incompatible products**

Do not store together with foodstuffs.

**7.3 Specific end use(s)****Industry solution**

Always read the label and product information before use.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	Quartz (SiO <sub>2</sub> )	14808-60-7	238-878-4

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<b>2004/37/EC</b>			
Respirable crystalline silica dust			
WEL long-term (8-hr TWA reference period)	0,1 (9 )	mg/m <sup>3</sup>	
<b>2</b>	<b>silicon dioxide, chemically prepared</b>	<b>7631-86-9</b>	<b>231-545-4</b>
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Silica, amorphous inhalable dust			
WEL long-term (8-hr TWA reference period)	6	mg/m <sup>3</sup>	
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Silica, amorphous respirable dust			
WEL long-term (8-hr TWA reference period)	2.4	mg/m <sup>3</sup>	

**8.2 Exposure controls****Appropriate engineering controls**

No data available.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

**Eye / face protection**

Safety glasses (EN 166)

**Hand protection**

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

**Other**

Normal chemical work clothing.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

State of aggregation		
solid		
Form		
solid		
Colour		
light brown		
Odour		
Earthy		
pH value		
Value	9.74	
Concentration	1	% aqueous solution
Source	Manufacturer	
Comments	after 2 years storage	
Boiling point / boiling range		
No data available		
Melting point/freezing point		
No data available		

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<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
No data available			
<b>Ignition temperature</b>			
No data available			
<b>Auto-ignition temperature</b>			
Value	>	400	°C
Method	EEC A16		
Source	Manufacturer		
<b>Oxidising properties</b>			
not oxidizing			
Method	EEC A17		
<b>Explosive properties</b>			
not explosive			
Method: 92/69/EEC, A.14			
<b>Flammability</b>			
The product is NOT highly flammable according to Regulation (EG) Nr. 440/2008 , method EC A.10 (flammability, solids)			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
No data available			
<b>Bulk density</b>			
Value		0.81	g/ml
Method	CIPAC MT 186		
Source	Manufacturer		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	Benthiavalicarb – isopropyl	177406-68-7	-
log Pow		2.56	
Reference temperature		20-25	°C
Source	Manufacturer		
<b>Kinematic viscosity</b>			
No data available			
<b>Particle characteristics</b>			
No data available			

**9.2 Other information**

<b>Other information</b>
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No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

The product is stable under normal storage and handling conditions. No reactivity with packaging material after two-year storage at ambient temperature and after accelerated storage at 54°C for 14 days.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

In case of fire the following can be released: Sulphurous oxides (SO<sub>x</sub>); Nitrous oxides (NO<sub>x</sub>)

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Product Name		
1	VERSILUS		
LD50	>	2000	mg/kg
Species	rat		
Method	OECD 401		
Source	Manufacturer		

Acute dermal toxicity			
No	Product Name		
1	VERSILUS		
LD50	>	2000	mg/kg
Species	rat		
Method	OECD 402		
Source	Manufacturer		

Acute inhalational toxicity			
No	Product Name		
1	VERSILUS		
LC50	>	5.53	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	Manufacturer		

Skin corrosion/irritation			
No	Product Name		
1	VERSILUS		
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	Manufacturer		
Evaluation	non-irritant		

Serious eye damage/irritation	
No	Product Name

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<b>1</b>	<b>VERSILUS</b>
Species	rabbit
Method	OECD 405
Source	Manufacturer
Evaluation	slightly irritant
Evaluation/classification	Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation****No** **Product Name****1** **VERSILUS**

Route of exposure	Skin
Species	guinea pig
Method	Magnussen/Kligmann-Test
Source	Manufacturer
Evaluation	non-sensitizing

**Germ cell mutagenicity****No** **Product Name****1** **VERSILUS**

Source	Manufacturer
Evaluation	Non mutagenic

**Reproduction toxicity****No** **Product Name****1** **VERSILUS**

Evaluation/classification	Based on available data, the classification criteria are not met (maximum achievable concentration, no mortality).
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**Carcinogenicity****No** **Product Name****1** **VERSILUS**

Source	Manufacturer
Evaluation/classification	Suspected of causing cancer.

**STOT - single exposure**

No data available

**STOT - repeated exposure****No** **Product Name****1** **VERSILUS**

Source	Manufacturer
Comments	May cause damage to organs through prolonged or repeated exposure

**Aspiration hazard**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
<b>No</b>	<b>Product Name</b>		
<b>1</b>	<b>VERSILUS</b>		
LC50	>	100	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		



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Method	OECD 203
Source	Manufacturer

**Toxicity to fish (chronic)**

No data available

**Toxicity to Daphnia (acute)**

No	Product Name
1	VERSILUS
EC50	> 100 mg/l
Duration of exposure	48 h
Species	Daphnia
Method	OECD 202
Source	Manufacturer

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

No	Product Name
1	VERSILUS
ErC50	> 100 mg/l
Duration of exposure	72 h
Species	Selenastrum capricornutum
Method	OECD 201
Source	Manufacturer

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

**12.2 Persistence and degradability**

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Benthiavalicarb – isopropyl	177406-68-7	-
Value	2	- 3	%
Duration		28	day(s)
Method	CO2 Evolution Test		
Source	Manufacturer		
Evaluation	not readily biodegradable		

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Benthiavalicarb – isopropyl	177406-68-7	-
log Pow		2.56	
Reference temperature		20-25	°C
Source	Manufacturer		

**12.4 Mobility in soil**

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	Benthiavalicarb – isopropyl	177406-68-7	-
log Koc		2.083 - 2.412	
with reference to	Adsorption		
Source	supplier		

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

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No data available.

**12.7 Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

**14.2 Transport IMDG**

The product is not subject to IMDG regulations.

**14.3 Transport ICAO-TI / IATA**

The product is not subject to ICAO-TI / IATA regulations.

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	diiron trioxide	1309-37-1	215-168-2	75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

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This product is not subject to Part 1 or 2 of Annex I.

**Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market**

Regulation (EU) No 547/2011 implementing Regulation (EC) No 1107/2009 as regards labelling requirements for plant protection products

**Annex III**

SP1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

SPo2 Wash all protective clothing after use.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H372i Causes damage to organs through prolonged or repeated exposure if inhaled.

H373i May cause damage to organs through prolonged or repeated exposure if inhaled.

H412 Harmful to aquatic life with long lasting effects.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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